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US EPA RECORDS CENTER REGION 5



OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA)

DIVISION OF EMERGENCY & REMEDIAL RESPONSE (DERR)

Focused Site Inspection Prioritization (FSIP) for **Stetzer Road Landfill**

STATEMENT OF PURPOSE: The purpose of this FSIP is to update and re-evaluate potential environmental hazards associated with the Stetzer Road Landfill site. Data collected will be used to show whether or not the Stetzer Road Landfill site is of National Priority List (NPL) caliber by documenting observed releases, observed contamination, and levels of target exposure.

GENERAL INFORMATION:

Date of FSIP: August 30, 1994
Site Name: Stetzer Road Landfill County: Crawford
USEPA ID: OHD980610869
Site Location: Stetzer Road, Bucyrus/Liberty Township
Latitude: 40° 50' 4.9"
Longitude: 82° 52' 57.4"
Ohio EPA Site Investigator: Bill Batin
U.S.G.S. Map Info(Quadrant): Bucyrus, Ohio

SITE INVESTIGATION HISTORY

Stetzer Road Landfill was initially evaluated as a Preliminary Assessment (PA) by Ohio EPA in September, 1985 and given a high priority. A Screening Site Inspection (SSI) was performed in June, 1987 by Ecology & Environment (E & E) and the site was still ranked a high priority. An FSIP site reconnaissance was performed in April, 1994 by Ohio EPA and it was determined that additional sampling was necessary. Ohio EPA returned to the site on August 30, 1994 to conduct sampling. This report is a summary of the site reconnaissance and subsequent FSIP investigation.

SITE DESCRIPTION

The Stetzer Road site is a seven acre landfill located on the north side of Stetzer Road between McCurdy and Peterman roads in a rural area. It is located in Liberty Township, Crawford County, Ohio. The history and types of wastes landfilled are not well documented. The site is fenced on the south and the Sandusky river protects against entry from the north. Farmland, grazing fields, and a wooded area border the site on the east and west within one half mile. A home within 1,300 feet of the landfill

obtains drinking water from a pond, located approximately 300 feet from the main entrance of the site.

All residents within three miles of the site obtain potable water from private wells or ponds. The city of Bucyrus, Ohio obtains its water supply from the Sandusky River which has its intake approximately 4.5 river miles downstream of the landfill. The nearest well is approximately 2000 feet from the site. Although the landfill was covered and seeded prior to 1986, exposed fill material has been observed on the north side of the site. The landfill is unlined.

SITE HISTORY

In 1966, Amerace Corporation purchased approximately 47 acres of the landfill property from [REDACTED] From 1966 to 1971, Amerace operated only five to eight acres of the property as a landfill. Solid wastes and unspecified quantities of solvents, heavy metals, and lead contaminated materials were disposed of on site.

Since closure in 1971, there have been several complaints about leachate problems at the site, which later prompted a visit from the Ohio EPA in December 1982. During this visit, Ohio EPA personnel documented a leachate stream, soil discoloration, chemical odor, and flooding of the Sandusky River.

Results from analyses of soil and leachate samples collected by the Ohio EPA in 1983 indicated the presence of lead, barium, iron, zinc, and trichloroethane. These results prompted the Ohio EPA to suggest that Amerace Corp take corrective measures to control migration of contaminants. Amerace complied with Ohio EPA, and voluntarily implemented some of the suggested corrective measures. Amerace added a clay cover and resurfaced parts of the landfill that had been severely eroded.

CURRENT SITE CONDITIONS

During the 1994 site reconnaissance and site investigation Ohio EPA observed one leachate outbreak, along with areas of barren soil and exposed rubber waste all near and along the northern downslope of the landfill. A swamp area was observed in the area between the river and the base of the landfill. A drainage ditch which runs from the base of the landfill to the river was dry at the time of the investigation.

The majority of the surface of the landfill is well vegetated. The landfill is bordered by a fence with a no trespassing sign to the south, the Sandusky River to the north, and wooded areas to the east and west. No further problems with leachate and chemical odors have been reported.

POTENTIAL EXPOSURE PATHWAYS

Surface Water Pathway

A potential exists for contaminants from Stetzer Road landfill to enter the Sandusky River via the surface water pathway. A drainage ditch runs from the base of the landfill into the river and the slope is generally downgradient from the landfill to the river. The ditch contains water according to season by either draining from the fill area, or backing up from the river.

The drinking water for the City of Bucyrus is taken from the Sandusky River and supplies water to approximately 13,000 Bucyrus residents. Results from the 1994 investigation indicate 2 J ppb of carbon disulfide present at the drinking water intake. Water was not being pumped from the river at the time of sampling. This contaminant cannot be attributed to the site since it was not found in on-site soil samples.

Groundwater Pathway

Significant contaminants detected in on-site soil samples were not found in the downgradient residential well that was sampled.

The background residential well on Stetzer Road was found to be clean. There are approximately 2,831 people within 4 miles of the site that use groundwater or obtain water from private ponds.

Air Pathway

The air pathway exposure risk is low due to adequate cover and vegetation on Stetzer Road Landfill.

Soil Exposure

There is a potential for contact through soil at the Stetzer Road Landfill site. A leachate outbreak containing volatiles is present on the northern downslope of the site. Additionally there are small areas of exposed soil and stressed vegetation. Except for the Sandusky River there are no relevant physical barriers that would prevent access to the landfill. Although, the landfill is located in a remote location surrounded by woods.

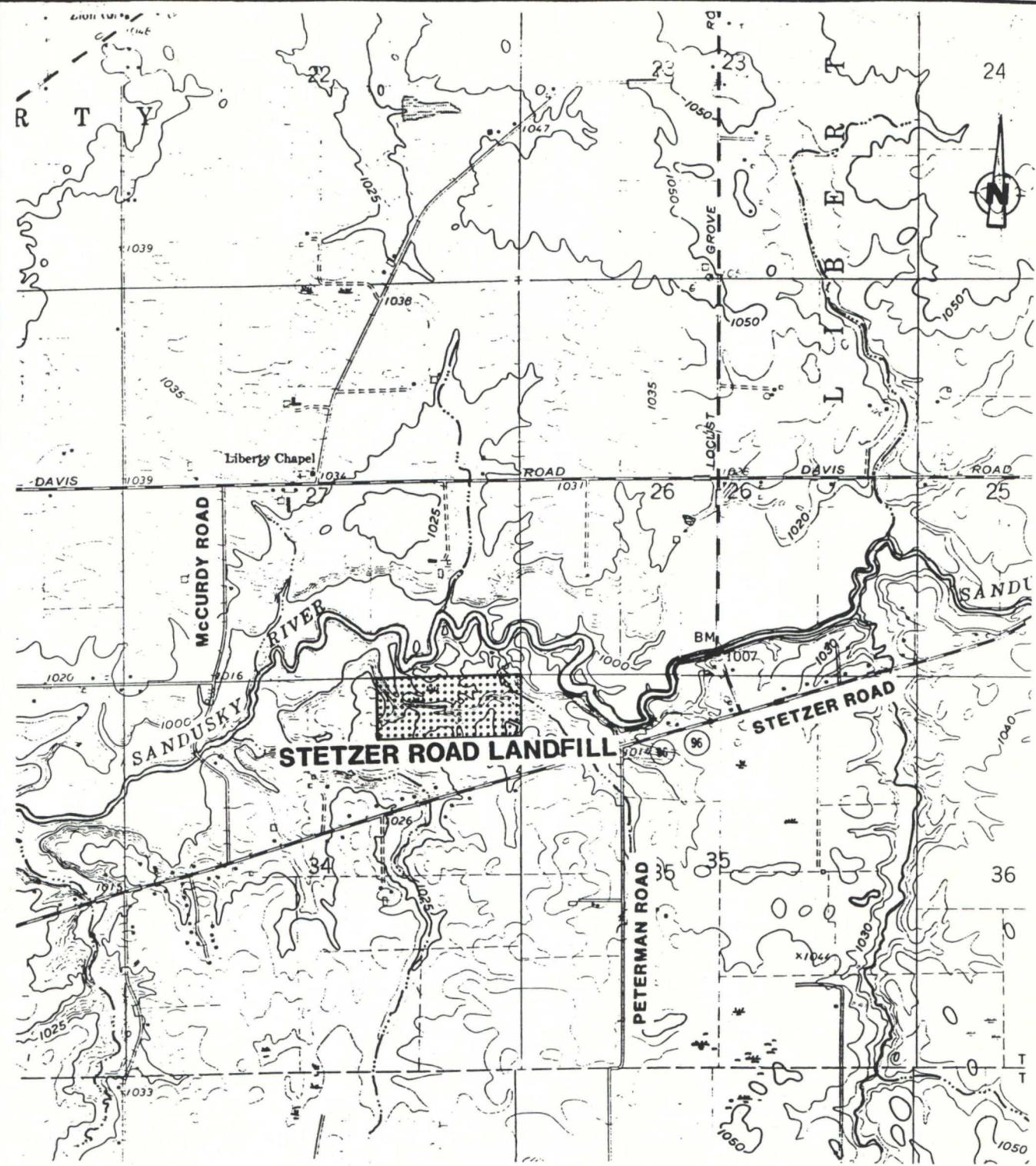
Two soil samples were taken from the leachate outbreak on the northern slope and a sparsely vegetated area of the landfill during the 1994 site investigation. Volatiles, semivolatiles, pesticides and some metals were detected in these soil samples. (see attached data tables for specific concentrations.)

REFERENCES:

Ecology & Environment, Screening Site Inspection report, June 15, 1987.

Ohio EPA Focused Site Inspection Prioritization (FSIP) investigation, August 30, 1994.

Ohio EPA Northwest District Office files.



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-8415

TITLE	FIGURE #	
SITE LOCATION MAP	1	
SITE	SCALE	
STETZER ROAD LANDFILL	1:24,000	
CITY	STATE	TOD #
BUCYRUS OH		F05-8611-171
SOURCE		DATE
USGS		12-29-86
		REVISED



QUADRANGLE LOCATION

PAGE REMOVED
DUE TO
GEOLOGICAL AND GEOPHYSICAL INFORMATION

Stetzer Road Landfill
Groundwater Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	GROUND-WATER	EZM / MEYZ 58	EZM / MEYZ 56	EZM / MEYZ 57	EZM / MEYZ 59
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED		9:45	10:45	11:00	0:00
SAMPLE DEPTH (FEET)				BLANK	
DESCRIPTION (if applicable)		Upgrad-ient reswell (Stetzer rd)	Downgrad-ient reswell (McCurdy Rd)	Duplicate of EZM/ MEYZ 56 (McCurdy reswell)	Trip Blank
VOLATILE ORGANIC COMPOUNDS	CRQL				
chloromethane	10ug/L	10U	10U	10U	10U
bromomethane	10ug/L	10U	10U	10U	10U
vinyl chloride	10ug/L	10U	10U	10U	10U
chloroethane	10ug/L	10U	10U	10U	10U
methylene chloride	10ug/L	10U	10U	10U	10U
acetone	10ug/L	10U	10U	10U	10U
carbon disulfide	10ug/L	10U	10U	10U	10U
1,1-dichloroethene	10ug/L	10U	10U	10U	10U
1,1-dichloroethane	10ug/L	10U	10U	10U	10U
1,2-dichloroethene (total)	10ug/L	10U	10U	10U	10U
chloroform	10ug/L	10U	28	24	10U
1,2-dichloroethane	10ug/L	10U	10U	10U	10U
2-butanone	10ug/L	10U	10U	10U	10U
1,1,1-trichloroethane	10ug/L	10U	10U	10U	10U
carbon tetrachloride	10ug/L	10U	10U	10U	10U
bromodichloromethane	10ug/L	10U	10U	10U	10U
1,2-dichloropropane	10ug/L	10U	10U	10U	10U
cis-1,3-dichloropropene	10ug/L	10U	10U	10U	10U
trichloroethene	10ug/L	10U	10U	10U	10U
dibromochloromethane	10ug/L	10U	10U	10U	10U
1,1,2-trichloroethane	10ug/L	10U	10U	10U	10U
benzene	10ug/L	10U	10U	10U	10U
trans-1,3-dichloropropene	10ug/L	10U	10U	10U	10U
bromoform	10ug/L	10U	10U	10U	10U
4-methyl-2-pentanone	10ug/L	10U	10U	10U	10U
2-hexanone	10ug/L	10U	10U	10U	10U
COMPOUND DETECTED					

Stetzer Road Landfill
Groundwater Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	GROUND-WATER	EZM / MEYZ 58	EZM / MEYZ 56	EZM / MEYZ 57	EZM / MEYZ 59
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED		9:45	10:45	11:00	0:00
SAMPLE DEPTH (FEET)				BLANK	
DESCRIPTION (if applicable)		Upgrad-ient reswell (Stetzer rd)	Downgrad-ient reswell (McCurdy Rd)	Duplicate of EZM/ MEYZ 56 (McCurdy reswell)	Trip Blank
VOLATILE ORGANIC COMPOUNDS	<i>CRQL</i>				
tetrachloroethene	10ug/L	10U	10U	10U	10U
1,1,2,2-tetrachloroethane	10ug/L	10U	10U	10U	10U
toluene	10ug/L	10U	10U	10U	10U
chlorobenzene	10ug/L	10U	10U	10U	10U
ethyl benzene	10ug/L	10U	10U	10U	10U
styrene	10ug/L	10U	10U	10U	10U
xylenes (total)	10ug/L	10U	10U	10U	1J
SEMI-VOLATILE ORGANIC COMPOUNDS	<i>CRQL</i>				
phenol	10ug/L	10U	10U	10U	
bis(2-chloroethyl)ether	10ug/L	10U	10U	10U	
2-chlorophenol	10ug/L	10U	10U	10U	
1,3-dichlorobenzene	10ug/L	10U	10U	10U	
1,4-dichlorobenzene	10ug/L	10U	10U	10U	
1,2-dichlorobenzene	10ug/L	10U	10U	10U	
2-methylphenol	10ug/L	10U	10U	10U	
2,2-oxybis(1-chloropropane)	10ug/L	10U	10U	10U	
4-methylphenol	10ug/L	10U	10U	10U	
n-nitroso-di-n-dipropylamine	10ug/L	10U	10U	10U	
hexachloroethane	10ug/L	10U	10U	10U	
nitrobenzene	10ug/L	10U	10U	10U	
isophorone	10ug/L	10U	10U	10U	
2-nitrophenol	10ug/L	10U	10U	10U	
2,4-dimethylphenol	10ug/L	10U	10U	10U	
bis(2-chloroethoxy)methane	10ug/L	10U	10U	10U	
2,4-dichlorophenol	10ug/L	10U	10U	10U	
1,2,4-trichlorobenzene	10ug/L	10U	10U	10U	

Stetzer Road Landfill
Groundwater Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	GROUND-WATER	EZM / MEYZ 58	EZM / MEYZ 56	EZM / MEYZ 57	EZM / MEYZ 59
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED		9:45	10:45	11:00	0:00
SAMPLE DEPTH (FEET)				BLANK	
DESCRIPTION (if applicable)		Upgrad-ient reswell (Stetzer rd)	Downgrad-ient reswell (McCurdy Rd)	Duplicate of EZM/ MEYZ 56 (McCurdy reswell)	Trip Blank
naphthalene	10ug/L	10U	10U	10U	
COMPOUND DETECTED					
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL				
4-chloroaniline	10ug/L	10U	10U	10U	
4-chloroaniline	10ug/L	10U	10U	10U	
hexachlorobutadiene	10ug/L	10U	10U	10U	
4-chloro-3-methylphenol	10ug/L	10U	10U	10U	
2-methylnaphthalene	10ug/L	10U	10U	10U	
hexachlorocyclopentadiene	10ug/L	10U	10U	10U	
2,4,6-trichlorophenol	10ug/L	10U	10U	10U	
2,4,5-trichlorophenol	10ug/L	25U	26U	26U	
2-chloronaphthalene	10ug/L	10U	10U	10U	
2-nitroaniline	10ug/L	25U	26U	26U	
dimethylphthalate	10ug/L	10U	10U	10U	
acenaphthylene	10ug/L	10U	10U	10U	
2,6-dinitrotoluene	10ug/L	10U	10U	10U	
3-nitroaniline	10ug/L	25U	26U	26U	
acenaphthene	10ug/L	10U	10U	10U	
2,4-dinitrophenol	10ug/L	25U	26U	26U	
4-nitrophenol	10ug/L	25U	26U	26U	
dibenzofuran	10ug/L	10U	10U	10U	
2,4-dinitrotoluene	10ug/L	10U	10U	10U	
diethylphthalate	10ug/L	10U	0.6J	10U	
4-chlorophenyl-phenyl ether	10ug/L	10U	10U	10U	
fluorene	10ug/L	10U	10U	10U	
4-nitroaniline	10ug/L	25U	26U	26U	
4,6-dinitro-2-methylphenol	10ug/L	25U	26U	26U	
n-nitrosodiphenylamine	10ug/L	10U	10U	10U	
4-bromophenyl-phenyl ether	10ug/L	10U	10U	10U	

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TIME SAMPLE COLLECTED		9:45	10:45	11:00	0:00
SAMPLE DEPTH (FEET)				BLANK	
DESCRIPTION (if applicable)		Upgrad-ient reswell (Stetzer rd)	Downgrad-ient reswell (McCurdy Rd)	Duplicate of EZM/ MEYZ 56 (McCurdy reswell)	Trip Blank
hexachlorobenzene	10ug/L	10U	10U	10U	
COMPOUND DETECTED					
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL				
pentachlorophenol	25ug/L	25U	26U	26U	
phenanthrene	10ug/L	10U	10U	10U	
anthracene	10ug/L	10U	10U	10U	
carbazole	10ug/l	10U	10U	10U	
di-n-butylphthalate	10ug/L	0.6J	10U	10U	
fluoranthene	10ug/L	10U	10U	10U	
pyrene	10ug/L	10U	10U	10U	
butylbenzylphthalate	10ug/L	10U	10U	10U	
3,3-dichlorobenzidine	10ug/L	10U	10U	10U	
benzo(a)anthracene	10ug/L	10U	10U	10U	
chrysene	10ug/L	10U	10U	10U	
bis(2-ethylhexyl)phthalate	10ug/L	10UJB	10UJB	10UJB	
di-n-octylphthalate	10ug/L	10U	10U	10U	
benzo(b)fluoranthene	10ug/L	10U	10U	10U	
benzo(k)fluoranthene	10ug/L	10U	10U	10U	
benzo(a)pyrene	10ug/L	10U	10U	10U	
indeno(1,2,3-cd)pyrene	10ug/L	10U	10U	10U	
dibenzo(a,h)anthracene	10ug/L	10U	10U	10U	
benzo(g,h,i)perylene	10ug/L	10U	10U	10U	
PESTICIDES/PCBs	CRQL				
alpha-BHC	0.05ug/L	0.050U	0.051U	0.052U	
beta-BHC	0.05ug/L	0.050U	0.051U	0.052U	
delta-BHC	0.05ug/L	0.050U	0.051U	0.052U	
gamma-BHC (Lindane)	0.05ug/L	0.050U	0.051U	0.052U	
heptachlor	0.05ug/L	0.050U	0.051U	0.052U	

Stetzer Road Landfill
Groundwater Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	GROUND-WATER	EZM / MEYZ 58	EZM / MEYZ 56	EZM / MEYZ 57	EZM / MEYZ 59
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED		9:45	10:45	11:00	0:00
SAMPLE DEPTH (FEET)				BLANK	
DESCRIPTION (if applicable)		Upgrad-ient reswell (Stetzer rd)	Downgrad-ient reswell (McCurdy Rd)	Duplicate of EZM/ MEYZ 56 (McCurdy reswell)	Trip Blank
aldrin	0.05ug/L	0.050U	0.051U	0.052U	
COMPOUND DETECTED	CRQL				
heptachlor epoxide	0.05ug/L	0.050U	0.051U	0.052U	
endosulfan I	0.05ug/L	0.050U	0.051U	0.052U	
dieldrin	0.10ug/L	0.10U	0.10U	0.10U	
4,4-DDE	0.10ug/L	0.10U	0.10U	0.10U	
Endrin	0.10ug/L	0.10U	0.10U	0.10U	
Endosulfan II	0.10ug/L	0.10U	0.10U	0.10U	
4,4-DDD	0.10ug/L	0.10U	0.10U	0.10U	
Endosulfan sulfate	0.10ug/L	0.10U	0.10U	0.10U	
4,4-DDT	0.10ug/L	0.10U	0.10U	0.10U	
methoxychlor	0.50ug/L	0.50U	0.51U	0.52U	
endrin ketone	0.10ug/L	0.10U	0.10U	0.10U	
endrin aldehyde	0.10ug/L	0.10U	0.10U	0.10U	
alpha-chlordane	0.05ug/L	0.050U	0.051U	0.052U	
gamma-chlordane	0.05ug/L	0.050U	0.051U	0.052U	
toxaphene	5.0ug/L	5U	5.1U	5.2U	
aroclor-1016	1.0ug/L	1U	1U	1U	
aroclor-1221	1.0ug/L	2U	2U	2.1U	
aroclor-1232	2.0kg/L	1U	1U	1U	
aroclor-1242	1.0ug/L	1U	1U	1U	
aroclor-1248	1.0ug/L	1U	1U	1U	
aroclor-1254	1.0ug/L	1U	1U	1U	
aroclor-1260	1.0ug/L	1U	1U	1U	

Stetzer Road Landfill
Groundwater Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	GROUND-WATER	EZM / MEYZ 58	EZM / MEYZ 56	EZM / MEYZ 57	EZM / MEYZ 59
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED		9:45	10:45	11:00	0:00
SAMPLE DEPTH (FEET)				BLANK	
DESCRIPTION (if applicable)		Upgrad-ient reswell (Stetzer rd)	Downgrad-ient reswell (McCurdy Rd)	Duplicate of EZM/ MEYZ 56 (McCurdy reswell)	Trip Blank
ANALYTE DETECTED					
TAL METALS/CYANIDE	CRDL				
aluminum	200ug/L	24.1B	58.7B	25.2B	
antimony	60ug/L	28.5U	28.5U	28.5U	
arsenic	10ug/L	0.90U	0.90U	0.90U	
barium	200ug/L	10.1B	57.5B	57.1B	
beryllium	5ug/L	0.21B	0.21B	0.27B	
cadmium	5ug/L	3.9U	3.9U	3.9U	
calcium	5000ug/L	299000	126000	124000	
chromium	10ug/L	2.8U	2.8U	2.8U	
cobalt	50ug/L	6.5B	4.1U	4.1U	
copper	25ug/L	6.4B	44.9	40.9	
iron	100ug/L	5740	418	430	
lead	3ug/L	3.4	6.9	7.5	
magnesium	5000ug/L	145000	29500	29500	
manganese	15ug/L	167	51.5	51.5	
mercury	0.2ug/L	0.20U	0.20U	0.20U	
nickel	40ug/L	13.3U	13.3U	13.3U	
potassium	5000ug/L	8290	503U	598B	
selenium	5ug/L	0.70U	0.82B	1.1B	
silver	10ug/L	3.5B	2.7B	2.6U	
sodium	5000ug/L	77400	5030	5000B	
thallium	10ug/L	0.98B	0.90U	0.90U	
vanadium	50ug/L	3.5U	3.5U	3.5U	
zinc	20ug/L	15.3B	270	268	
cyanide	10ug/L	10U	10U	10U	

Stetzer Road Landfill Groundwater Results

1

Stetzer Road Landfill Groundwater Results

2

Stetzer Road Landfill Groundwater Results

3

Stetzer Road Landfill Groundwater Results

Stetzer Road Landfill Groundwater Results

Stetzer Road Landfill Groundwater Results

6

Stetzer Road Landfill Soil Results

1

Stetzer Road Landfill

Soil Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SOIL	EZM / MEYZ 16	EZM / MEYZ 43	EZM / MEYZ 38	EZM / MEYZ 44	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	7/15/87	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:00	10:10	10:30	11:30				
SAMPLE DEPTH (FEET)		4-8"	2.5-3'	0-3'	0-3"				
DESCRIPTION (if applicable)		Soil Bkg SW of landfill	Top north central (barren ground)	Leachate outbreak, northern slope (soil)	Dupe of EZM/ MEYZ38 (leachate)	S4, Back- ground	S3, North Central	S2, NW corner	S1, NE corner
VOLATILE ORGANIC COMPOUNDS	CRQL								
tetrachloroethene	10ug/kg	12U	11U	14U	16U				
1,1,2,2-tetrachloroethane	10ug/kg	12U	11U	14U	16U				
toluene	10ug/kg	12U	11U	14U	16U	2.7BJ	4.5J	3.2J	4.8BJ
chlorobenzene	10ug/kg	12U	11U	14U	16U				
ethyl benzene	10ug/kg	12U	11U	14U	16U				
styrene	10ug/kg	12U	11U	14U	16U				
xylenes (total)	10ug/kg	12U	11U	14U	16U				
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL								
phenol	330 ug/kg	380U	380U	480U	520U				
bis(2-chloroethyl)ether	330 ug/kg	380U	380U	480U	520U				
2-chlorophenol	330 ug/kg	380U	380U	480U	520U				
1,3-dichlorobenzene	330 ug/kg	380U	380U	480U	520U				
1,4-dichlorobenzene	330 ug/kg	380U	380U	480U	520U				
1,2-dichlorobenzene	330 ug/kg	380U	380U	480U	520U				
2-methylphenol	330 ug/kg	380U	380U	480U	520U				
2,2-oxybis(1-chloropropane)	330 ug/kg	380U	380U	480U	520U				
4-methylphenol	330 ug/kg	380U	380U	480U	520U				
n-nitroso-di-n-dipropylamine	330 ug/kg	380U	380U	480U	520U				
hexachloroethane	330 ug/kg	380U	380U	480U	520U				
nitrobenzene	330 ug/kg	380U	380U	480U	520U				
isophorone	330 ug/kg	380U	380U	480U	520U				
2-nitrophenol	330 ug/kg	380U	380U	480U	520U				
2,4-dimethylphenol	330 ug/kg	380U	380U	480U	520U				
bis(2-chloroethoxy)methane	330 ug/kg	380U	380U	480U	520U				
2,4-dichlorophenol	330 ug/kg	380U	380U	480U	520U				
1,2,4-trichlorobenzene	330 ug/kg	380U	380U	480U	520U				

Stetzer Road Landfill
Soil Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SOIL	EZM / MEYZ 16	EZM / MEYZ 43	EZM / MEYZ 38	EZM / MEYZ 44	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	7/15/87	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:00	10:10	10:30	11:30				
SAMPLE DEPTH (FEET)		4-8"	2.5-3'	0-3'	0-3"				
DESCRIPTION (if applicable)		Soil Bkg SW of landfill	Top north central (barren ground)	Leachate outbreak, northern slope (soil)	Dupe of EZM/ MEYZ38 (leachate)	S4, Back- ground	S3, North Central	S2, NW corner	S1, NE corner
naphthalene	330 ug/kg	380U	380U	480U	520U				
COMPOUND DETECTED									
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL	380U	380U	480U	520U				
4-chloroaniline	330 ug/kg	380U	380U	480U	520U				
4-chloroaniline	330 ug/kg	380U	380U	480U	520U				
hexachlorobutadiene	330 ug/kg	380U	380U	480U	520U				
4-chloro-3-methylphenol	330 ug/kg	380U	380U	480U	520U				
2-methylnaphthalene	330 ug/kg	380U	380U	41J	90J				
hexachlorocyclopentadiene	330 ug/kg	380U	380U	480U	520U				
2,4,6-trichlorophenol	330 ug/kg	380U	380U	480U	520U				
2,4,5-trichlorophenol	800ug/kg	930U	920U	1200U	1200U				
2-chloronaphthalene	330 ug/kg	380U	380U	480U	520U				
2-nitroaniline	800ug/kg	930U	920U	1200U	1200U				
dimethylphthalate	330 ug/kg	380U	380U	480U	520U				
acenaphthylene	330 ug/kg	380U	380U	480U	520U				
2,6-dinitrotoluene	330 ug/kg	380U	380U	480U	520U				
3-nitroaniline	800ug/kg	930U	920U	1200U	1200U				
acenaphthene	330 ug/kg	380U	380U	48J	99J				
2,4-dinitrophenol	800ug/kg	930U	920U	1200U	1200U				
4-nitrophenol	800ug/kg	930U	920U	1200U	1200U				
dibenzofuran	330 ug/kg	380U	380U	480U	520U				
2,4-dinitrotoluene	330 ug/kg	380U	380U	480U	520U				
diethylphthalate	330 ug/kg	380U	380U	480U	520U				
4-chlorophenyl-phenyl ether	330 ug/kg	380U	380U	480U	520U				
fluorene	330 ug/kg	380U	380U	53J	120J				
4-nitroaniline	800ug/kg	930U	920U	1200U	1200U				
4,6-dinitro-2-methylphenol	800ug/kg	930U	920U	1200U	1200U				
n-nitrosodiphenylamine	330 ug/kg	380U	380U	250J	500J				
4-bromophenyl-phenyl ether	330 ug/kg	380U	380U	480U	520U				

Stetzer Road Landfill

Soil Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SOIL	EZM / MEYZ 16	EZM / MEYZ 43	EZM / MEYZ 38	EZM / MEYZ 44	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	7/15/87	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:00	10:10	10:30	11:30				
SAMPLE DEPTH (FEET)		4-8"	2.5-3'	0-3'	0-3"				
DESCRIPTION (if applicable)		Soil Bkg SW of landfill	Top north central (barren ground)	Leachate outbreak, northern slope (soil)	Dupe of EZM/ MEYZ38 (leachate)	S4, Back- ground	S3, North Central	S2, NW corner	S1, NE corner
hexachlorobenzene	330 ug/kg	380U	380U	480U	520U				
COMPOUND DETECTED									
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL	380U	380U	480U	520U				
pentachlorophenol	800ug/kg	930U	920U	1200U	1200U				
phenanthrene	330 ug/kg	380U	380U	63J	130J				
anthracene	330 ug/kg	380U	380U	480U	520U				
carbazole	330 ug/kg	380U	380U	480U	520U				
di-n-butylphthalate	330 ug/kg	380U	380U	24J	40J				
fluoranthene	330 ug/kg	22J	380U	480U	50J				
pyrene	330 ug/kg	380U	380U	81J	200J				
butylbenzylphthalate	330 ug/kg	380U	380U	480U	520U				
3,3-dichlorobenzidine	330 ug/kg	380U	380U	480U	520U				
benzo(a)anthracene	330 ug/kg	380U	380U	480U	520U				
chrysene	330 ug/kg	380U	380U	480U	27J				
bis(2-ethylhexyl)phthalate	330 ug/kg	380UJB	380UJB	480UJB	520UJB		1280		
di-n-octylphthalate	330 ug/kg	380U	380U	480U	520U				
benzo(b)fluoranthene	330 ug/kg	380U	380U	480U	520U				
benzo(k)fluoranthene	330 ug/kg	380U	380U	480U	520U				
benzo(a)pyrene	330 ug/kg	380U	380U	480U	520U				
indeno(1,2,3-cd)pyrene	330 ug/kg	380U	380U	480U	520U				
dibenzo(a,h)anthracene	330 ug/kg	380U	380U	480U	520U				
benzo(g,h,i)perylene	330 ug/kg	380U	380U	480U	520U				
PESTICIDES/PCBs									
alpha-BHC	1.7ug/kg	2U	2U	2.4U	2.7U				
beta-BHC	1.7ug/kg	2U	2U	2.4U	2.7U		34	129	48.1
delta-BHC	1.7ug/kg	2U	2U	2.4U	2.7U				
gamma-BHC (Lindane)	1.7ug/kg	2U	2U	2.4U	2.7U				
heptachlor	1.7ug/kg	2U	2	2.4U	2.7U				

Stetzer Road Landfill
Soil Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SOIL	EZM / MEYZ 16	EZM / MEYZ 43	EZM / MEYZ 38	EZM / MEYZ 44	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	7/15/87	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:00	10:10	10:30	11:30				
SAMPLE DEPTH (FEET)		4-8"	2.5-3'	0-3'	0-3"				
DESCRIPTION (if applicable)		Soil Bkg SW of landfill	Top north central (barren ground)	Leachate outbreak, northern slope (soil)	Dupe of EZM/ MEYZ38 (leachate)	S4, Back- ground	S3, North Central	S2, NW corner	S1, NE corner
aldrin	1.7ug/kg	2U	2U	2.4U	2.7U				
COMPOUND DETECTED									
PESTICIDES/PCBs									
heptachlor epoxide	1.7ug/kg	2U	2U	2.4U	2.7U				
endosulfan I	1.7ug/kg	2U	2U	2.4U	2.7U				
dieldrin	3.3ug/kg	3.8U	3.8U	5.6	7.3				
4,4-DDE	3.3ug/kg	3.8U	3.8U	4.7U	5.3P				
Endrin	3.3ug/kg	3.8U	3.8U	8.3	6P				
Endosulfan II	3.3ug/kg	3.8U	3.8U	4.7U	5.2U				
4,4-DDD	3.3ug/kg	3.8U	3.8U	4.7U	9.9P				
Endosulfan sulfate	3.3ug/kg	3.8U	3.8U	4.7U	5.2U				
4,4-DDT	3.3ug/kg	3.8U	3.8U	4.7U	5.2U				
methoxychlor	17ug/kg	20U	20U	24U	27U				
endrin ketone	3.3ug/kg	3.8U	3.8U	4.7U	3.9J				
endrin aldehyde	3.3ug/kg	3.8U	4.4	4.7U	5.2U				
alpha-chlordane	1.7ug/kg	2U	2U	2.4U	2.7U				
gamma-chlordane	1.7ug/kg	2U	2U	2.4U	2.7U				
toxaphene	170 ug/kg	200U	200U	240U	270U				
aroclor-1016	33ug/kg	38U	38U	47U	52U				
aroclor-1221	33ug/kg	78U	77U	96U	100U				
aroclor-1232	67ug/kg	38U	38U	47U	52U				
aroclor-1242	33ug/kg	38U	38U	47U	52U				
aroclor-1248	33ug/kg	38U	38U	47U	52U				
aroclor-1254	33ug/kg	38U	38U	47U	52U				
aroclor-1260	33ug/kg	38U	38U	47U	52U				

Stetzer Road Landfill
Soil Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SOIL	EZM / MEYZ 16	EZM / MEYZ 43	EZM / MEYZ 38	EZM / MEYZ 44	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	7/15/87	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:00	10:10	10:30	11:30				
SAMPLE DEPTH (FEET)		4-8"	2.5-3'	0-3'	0-3"				
DESCRIPTION (if applicable)		Soil Bkg SW of landfill	Top north central (barren ground)	Leachate outbreak, northern slope (soil)	Dupe of EZM/ MEYZ38 (leachate)	S4, Back- ground	S3, North Central	S2, NW corner	S1, NE corner
ANALYTE DETECTED									
TAL METALS/CYANIDE	CRDL								
aluminum	40mg/kg	11700	10500	12500	15300	11300	10900	7360	9380
antimony	12mg/kg	6.7U	6.5U	9.1U	8.8U				
arsenic	2mg/kg	10	15.3B	3.7	3.1	12	16	15	14
barium	40mg/kg	63.6	75	60.3B	67.1	101	109	44	65
beryllium	1mg/kg	0.57B	0.59B	0.69B	0.71B				
cadmium	1mg/kg	0.91U	0.89U	1.2U	1.3B				
calcium	1000mg/kg	960B	44500	12400	11400				
chromium	2mg/kg	14.4	15.7	17.9	21.3	13	15	12	15
cobalt	10mg/kg	13.3	12	9.6B	9.7B	14	12	13	12
copper	5mg/kg	16.9	30.1	35.6	29.1	14	28	26	27
iron	20mg/kg	20400	26700	17900	18300				
lead	0.6mg/kg	18.4	14.2	39.5	34.6	20J	22J	16.0J	16.0J
magnesium	1000mg/kg	2020	12400	6320	6420				
manganese	3mg/kg	716	294	163	160				
mercury	0.1mg/kg	0.12U	0.11U	0.16U	0.15U	0.1CV			
nickel	8mg/kg	19.2	29.2	29.7	29.5	15	38	33	37
potassium	1000mg/kg	1090B	2430	2080	2870				
selenium	1mg/kg	0.43B	0.16U	0.22U	0.22U				
silver	2mg/kg	1.6B	2.4	1.8B	0.80U				
sodium	1000mg/kg	40.7B	99.4B	94.3B	88.9B				
thallium	2mg/kg	0.32B	0.46B	0.41B	0.32B				
vanadium	10mg/kg	28.6	21.5	26.6	32.1	25	20	16	19
zinc	4mg/kg	79.4	101	254	254	71	161	135	116
cyanide	2mg/kg	0.58U	0.57U	0.80U	0.89				

Stetzer Road Landfill FSIP

Sediment Results

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CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SEDIMENT	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	EZM / MEYZ 52	EZM / MEYZ 49	EZM / MEYZ 50	EZM / MEYZ 51
DATE SAMPLE COLLECTED		7/15/87	7/15/87	7/15/87	7/15/87	8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED						12:25	11:45	11:35	11:35
SAMPLE DEPTH (FEET)						Surf.		3' into water, 0-6" sed	3-4"
DESCRIPTION (if applicable)		SAMPLE # 4 DOWN GRADIENT NEAR INTAKE	SAMPLE # 3 DOWN GRADIENT OF SITE	SAMPLE # 2 ALONG SIDE SITE	SAMPLE # 1 UPGRADIENT	sediment bkg	Sediment, PPE into creek	Drinking water intake sediment	Duplicate of EZM/MEYZ50 (sediment)

VOLATILE ORGANIC COMPOUNDS	CRQL								
chloromethane	10ug/kg					19U	13U	19U	20U
bromomethane	10ug/kg					19U	13U	19U	20U
vinyl chloride	10ug/kg					19U	13U	19U	20U
chloroethane	10ug/kg					19U	13U	19U	20U
methylene chloride	10ug/kg		3.2J		2.8J	19BJU	13BU	16J	20BJU
acetone	10ug/kg		132B	230B	136B	16J	13U	32	18J
carbon disulfide	10ug/kg					19U	13U	19U	20U
1,1-dichloroethene	10ug/kg					19U	13U	19U	20U
1,1-dichloroethane	10ug/kg					19U	13U	19U	20U
1,2-dichloroethene (total)	10ug/kg					19U	13U	19U	20U
chloroform	10ug/kg					19U	13U	19U	20U
1,2-dichloroethane	10ug/kg					19U	13U	19U	20U
2-butanone	10ug/kg					19U	13U	19U	20U
1,1,1-trichloroethane	10ug/kg					19U	13U	19U	20U
carbon tetrachloride	10ug/kg					19U	13U	19U	20U
bromodichloromethane	10ug/kg					19U	13U	19U	20U
1,2-dichloropropane	10ug/kg					19U	13U	19U	20U
cis-1,3-dichloropropene	10ug/kg					19U	13U	19U	20U
trichloroethene	10ug/kg					19U	13U	19U	20U
dibromochloromethane	10ug/kg					19U	13U	19U	20U
1,1,2-trichloroethane	10ug/kg					19U	13U	19U	20U
benzene	10ug/kg					19U	13U	19U	20U
trans-1,3-dichloropropene	10ug/kg					19U	13U	19U	20U
bromoform	10ug/kg					19U	13U	19U	20U
4-methyl-2-pentanone	10ug/kg					19U	13U	19U	20U
2-hexanone	10ug/kg					19U	13U	19U	20U

Stetzer Road Landfill FSIP

Sediment Results

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CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SEDIMENT	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	EZM / MEYZ 52	EZM / MEYZ 49	EZM / MEYZ 50	EZM / MEYZ 51
DATE SAMPLE COLLECTED		7/15/87	7/15/87	7/15/87	7/15/87	8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED						12:25	11:45	11:35	11:35
SAMPLE DEPTH (FEET)						surf.		3' into water, 0-6" sed	3-4"
DESCRIPTION (if applicable)		SAMPLE # 4 DOWN GRADIENT NEAR INTAKE	SAMPLE # 3 DOWN GRADIENT OF SITE	SAMPLE # 2 ALONG SIDE SITE	SAMPLE # 1 UPGRADIENT	sediment bkg	Sediment, PPE into creek	Drinking water intake sediment	Duplicate of EZM/MEYZ50 (sediment)
COMPOUND DETECTED									
VOLATILE ORGANIC COMPOUNDS	CRQL								
tetrachloroethene	10ug/kg					19U	13U	19U	20U
1,1,2,2-tetrachloroethane	10ug/kg					19U	13U	19U	20U
toluene	10ug/kg		1.7J		2.8J	19U	13U	19U	20U
chlorobenzene	10ug/kg					19U	13U	19U	20U
ethyl benzene	10ug/kg					19U	13U	19U	20U
styrene	10ug/kg					19U	13U	19U	20U
xylenes (total)	10ug/kg					19U	13U	19U	20U
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL								
phenol	330 ug/kg					630U	420U	630U	650U
bis(2-chloroethyl)ether	330 ug/kg					630U	420U	630U	650U
2-chlorophenol	330 ug/kg					630U	420U	630U	650U
1,3-dichlorobenzene	330 ug/kg					630U	420U	630U	650U
1,4-dichlorobenzene	330 ug/kg					630U	420U	630U	650U
1,2-dichlorobenzene	330 ug/kg					630U	420U	630U	650U
2-methylphenol	330 ug/kg					630U	420U	630U	650U
2,2-oxybis(1-chloropropane)	330 ug/kg					630U	420U	630U	650U
4-methylphenol	330 ug/kg					630U	420U	630U	650U
n-nitroso-di-n-dipropylamine	330 ug/kg					630U	420U	630U	650U
hexachloroethane	330 ug/kg					630U	420U	630U	650U
nitrobenzene	330 ug/kg					630U	420U	630U	650U
isophorone	330 ug/kg					630U	420U	630U	650U
2-nitrophenol	330 ug/kg					630U	420U	630U	650U
2,4-dimethylphenol	330 ug/kg					630U	420U	630U	650U
bis(2-chloroethoxy)methane	330 ug/kg					630U	420U	630U	650U
2,4-dichlorophenol	330 ug/kg					630U	420U	630U	650U

Stetzer Road Landfill FSIP

Sediment Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SEDIMENT	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	EZM / MEYZ 52	EZM / MEYZ 49	EZM / MEYZ 50	EZM / MEYZ 51
DATE SAMPLE COLLECTED		7/15/87	7/15/87	7/15/87	7/15/87	8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED						12:25	11:45	11:35	11:35
SAMPLE DEPTH (FEET)						surf.		3' into water, 0-6" sed	3-4"
DESCRIPTION (if applicable)		SAMPLE # 4 DOWN GRADIENT NEAR INTAKE	SAMPLE # 3 DOWN GRADIENT OF SITE	SAMPLE # 2 ALONG SIDE SITE	SAMPLE # 1 UPGRADIENT	sediment bkg	Sediment, PPE into creek	Drinking water intake sediment	Duplicate of EZM/MEYZ50 (sediment)
1,2,4-trichlorobenzene	330 ug/kg					630U	420U	630U	650U
naphthalene	330 ug/kg					630U	420U	630U	650U
COMPOUND DETECTED	CRQL								
SEMI-VOLATILE ORGANIC COMPOUNDS									
4-chloroaniline	330 ug/kg					630U	420U	630U	650U
4-chloroaniline	330 ug/kg					630U	420U	630U	650U
hexachlorobutadiene	330 ug/kg					630U	420U	630U	650U
4-chloro-3-methylphenol	330 ug/kg					630U	420U	630U	650U
2-methylnaphthalene	330 ug/kg					630U	420U	630U	650U
hexachlorocyclopentadiene	330 ug/kg					630U	420U	630U	650U
2,4,6-trichlorophenol	330 ug/kg					630U	420U	630U	650U
2,4,5-trichlorophenol	800ug/kg					1500U	1000U	1500U	1600U
2-chloronaphthalene	330 ug/kg					630U	420U	630U	650U
2-nitroaniline	800ug/kg					1500U	1000U	1500U	1600U
dimethylphthalate	330 ug/kg					630U	420U	630U	89J
acenaphthylene	330 ug/kg					630U	420U	630U	650U
2,6-dinitrotoluene	330 ug/kg					630U	420U	630U	650U
3-nitroaniline	800ug/kg					1500U	1000U	1500U	1600U
acenaphthene	330 ug/kg					630U	420U	630U	650U
2,4-dinitrophenol	800ug/kg					1500U	1000U	1500U	1600U
4-nitrophenol	800ug/kg					1500U	1000U	1500U	1600U
dibenzofuran	330 ug/kg					630U	420U	630U	650U
2,4-dinitrotoluene	330 ug/kg					630U	420U	630U	650U
diethylphthalate	330 ug/kg					630U	420U	630U	650U
4-chlorophenyl-phenyl ether	330 ug/kg					630U	420U	630U	650U
fluorene	330 ug/kg					630U	420U	630U	650U
4-nitroaniline	800ug/kg					1500U	1000U	1500U	1600U
4,6-dinitro-2-methylphenol	800ug/kg					1500U	1000U	1500U	1600U
n-nitrosodiphenylamine	330 ug/kg			43J		630U	420U	630U	650U

Stetzer Road Landfill FSIP

Sediment Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SEDIMENT	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	EZM / MEYZ 52	EZM / MEYZ 49	EZM / MEYZ 50	EZM / MEYZ 51	
DATE SAMPLE COLLECTED		7/15/87	7/15/87	7/15/87	7/15/87	8/30/94	8/30/94	8/30/94	8/30/94	
TIME SAMPLE COLLECTED						12:25	11:45	11:35	11:35	
SAMPLE DEPTH (FEET)						surf.		3' into water, 0-6" sed	3-4"	
DESCRIPTION (if applicable)		SAMPLE # 4 DOWN GRADIENT NEAR INTAKE	SAMPLE # 3 DOWN GRADIENT OF SITE	SAMPLE # 2 ALONG SIDE SITE	SAMPLE # 1 UPGRADIENT	sediment bkg	Sediment, PPE into creek	Drinking water intake sediment	Duplicate of EZM/MEYZ50 (sediment)	
4-bromophenyl-phenyl ether	330 ug/kg					630U	420U	630U	650U	
hexachlorobenzene	330 ug/kg					630U	420U	630U	650U	
COMPOUND DETECTED										
SEMI-VOLATILE ORGANIC COMPOUNDS	CRQL									
pentachlorophenol	800ug/kg					1500U	1000U	1500U	1600U	
phenanthrene	330 ug/kg					80J	57J	130J	95J	
anthracene	330 ug/kg					630U	420U	630U	650U	
carbazole	330 ug/kg					630U	420U	630U	650U	
di-n-butylphthalate	330 ug/kg					630BJU	420U	630U	650U	
fluoranthene	330 ug/kg					94J	30J	110J	89J	
pyrene	330 ug/kg					95J	75J	240J	150J	
butylbenzylphthalate	330 ug/kg					69J	420U	630U	650U	
3,3-dichlorobenzidine	330 ug/kg					630U	420U	630U	650U	
benzo(a)anthracene	330 ug/kg					54J	32J	74J	62J	
chrysene	330 ug/kg					96J	50J	120J	77J	
bis(2-ethylhexyl)phthalate	330 ug/kg	105J		93J	337J	630BJU	430BU	630BJU	940B	
di-n-octylphthalate	330 ug/kg					630U	420U	630U	650U	
benzo(b)fluoranthene	330 ug/kg					87J	49J	100J	65J	
benzo(k)fluoranthene	330 ug/kg					630U	420U	630U	650U	
benzo(a)pyrene	330 ug/kg					53J	32J	49J	33J	
indeno(1,2,3-cd)pyrene	330 ug/kg					630U	420U	630U	650U	
dibenzo(a,h)anthracene	330 ug/kg					630U	420U	630U	650U	
benzo(g,h,i)perylene	330 ug/kg					630U	420U	630U	650U	
PESTICIDES/PCBs										
alpha-BHC	1.7ug/kg					3.3U	2.2U	3.3U	3.3U	
beta-BHC	1.7ug/kg					3.3U	2.2U	3.3U	3.3U	
delta-BHC	1.7ug/kg		50.7		57.7	3.3U	2.2U	3.3U	3.3U	
gamma-BHC (Lindane)	1.7ug/kg					3.3U	2.2U	3.3U	3.3U	

Stetzer Road Landfill FSIP

Sediment Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SEDIMENT	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	EZM / MEYZ 52	EZM / MEYZ 49	EZM / MEYZ 50	EZM / MEYZ 51
DATE SAMPLE COLLECTED		7/15/87	7/15/87	7/15/87	7/15/87	8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED						12:25	11:45	11:35	11:35
SAMPLE DEPTH (FEET)						surf.		3' into water, 0-6" sed	3-4"
DESCRIPTION (if applicable)		SAMPLE # 4 DOWN GRADIENT NEAR INTAKE	SAMPLE # 3 DOWN GRADIENT OF SITE	SAMPLE # 2 ALONG SIDE SITE	SAMPLE # 1 UPGRADIENT	sediment bkg	Sediment, PPE into creek	Drinking water intake sediment	Duplicate of EZM/MEYZ50 (sediment)
heptachlor	1.7ug/kg					3.3U	2.2U	3.3U	3.3U
aldrin	1.7ug/kg					3.3U	2.2U	3.3U	3.3U
COMPOUND DETECTED									
PESTICIDES/PCBs									
heptachlor epoxide	1.7ug/kg					3.3U	2.2U	3.3U	3.3U
endosulfan I	1.7ug/kg					3.3U	2.2U	3.3U	3.3U
dieldrin	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
4,4-DDE	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
Endrin	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
Endosulfan II	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
4,4-DDD	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
Endosulfan sulfate	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
4,4-DDT	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
methoxychlor	17ug/kg					33U	22U	33U	33U
endrin ketone	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
endrin aldehyde	3.3ug/kg					6.3U	4.2U	6.3U	6.5U
alpha-chlordane	1.7ug/kg					3.3U	2.2U	3.3U	3.3U
gamma-chlordane	1.7ug/kg					3.3U	2.2U	3.3U	3.3U
toxaphene	170 ug/kg					330U	220U	330U	330U
aroclor-1016	33ug/kg					63U	42U	63U	65U
aroclor-1221	33ug/kg					130U	86U	130U	130U
aroclor-1232	67ug/kg					63U	42U	63U	65U
aroclor-1242	33ug/kg					63U	42U	63U	65U
aroclor-1248	33ug/kg					63U	42U	63U	65U
aroclor-1254	33ug/kg					63U	42U	63U	65U
aroclor-1260	33ug/kg					63U	42U	63U	65U

Stetzer Road Landfill FSIP

Sediment Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SEDIMENT	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	EZM / MEYZ 52	EZM / MEYZ 49	EZM / MEYZ 50	EZM / MEYZ 51
DATE SAMPLE COLLECTED		7/15/87	7/15/87	7/15/87	7/15/87	8/30/94	8/30/94	8/30/94	8/30/94
TIME SAMPLE COLLECTED						12:25	11:45	11:35	11:35
SAMPLE DEPTH (FEET)						surf.		3' into water, 0-6" sed	3-4"
DESCRIPTION (if applicable)		SAMPLE # 4 DOWN GRADIENT NEAR INTAKE	SAMPLE # 3 DOWN GRADIENT OF SITE	SAMPLE # 2 ALONG SIDE SITE	SAMPLE # 1 UPGRADIENT	sediment bkg	Sediment, PPE into creek	Drinking water intake sediment	Duplicate of EZM/MEYZ50 (sediment)
ANALYTE DETECTED									
TAL METALS/CYANIDE	CRDL								
aluminum	40mg/kg					10400	4490	8160	8960
antimony	12mg/kg					10.2B	5.1B	5.3B	5.7B
arsenic	2mg/kg	12	9.1		7.7	13.7	9.8	12.2	9.5
barium	40mg/kg	90	28	21	28	91.1	35.7B	72.8B	74.1B
beryllium	1mg/kg					0.79B	0.28U	0.49B	0.44B
cadmium	1mg/kg					0.97B	0.61B	0.74U	0.78B
calcium	1000mg/kg					19200	21900	18800	18000
chromium	2mg/kg	11	8.1	8.4	6.7	16.4	8.4	13.1	14.1
cobalt	10mg/kg	12	6.7	5.9	5	8.1B	5.6B	6.6B	7B
copper	5mg/kg	42	14	12	10	26.4	12.4	25.4	25
iron	20mg/kg					23900	13600	20700	20900
lead	0.6mg/kg	13J	7.1J	11	7.1J	20.6	15.4	16.7	18.3
magnesium	1000mg/kg					6710	7730	6420	6280
manganese	3mg/kg					429	291	334	329
mercury	0.1mg/kg					0.21	0.14U	0.18U	0.19U
nickel	8mg/kg	38	16	15	13	24.5	14.9	15.1	21
potassium	1000mg/kg					1610B	836B	1230B	1330B
selenium	1mg/kg					1.9U	1.4U	1.8U	1.9U
silver	2mg/kg					0.76U	0.57U	0.74U	0.74U
sodium	1000mg/kg					249B	94.2B	105B	116B
thallium	2mg/kg					2.1B	1.4U	2.7B	1.9B
vanadium	10mg/kg	25	9.9	11	11	24.6	14.4	20.6	22.1
zinc	4mg/kg	195	58	51	54	113	53.2	99.2	103
cyanide	2mg/kg					0.95U	0.71U	0.92U	0.93U

Stetzer Road Landfill: Surface Water
Results

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CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SURFACE WATER SANDUSKY RIVER	EZM / MEYZ 55	EZM / MEYZ 53	EZM / MEYZ 54	EZM / MEYZ 26	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/29/94	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:25	10:10	10:10	10:00				
SAMPLE DEPTH (FEET)		6" into water, 0- 3" sediment	surf.	surf.	BLANK				
DESCRIPTION (if applicable)		Surface water bkg	drinking water intake (surface water)	Dupe of EZM/ MEYZ 53, water intake	Trip Blank	BLANK	Downgradient near drinking intake	Downgradient Surface Water	Surface water- Alongside site
VOLATILE ORGANIC COMPOUNDS									
	CRQL								
chloromethane	10ug/L	10U	10U	10U	10U				
bromomethane	10ug/L	10U	10U	10U	10U				
vinyl chloride	10ug/L	10U	10U	10U	10U				
chloroethane	10ug/L	10U	10U	10U	10U				
methylene chloride	10ug/L	10BJU	10BJU	10BJU	10BJU				
acetone	10ug/L	10U	10U	10U	10U				
carbon disulfide	10ug/L	10U	10U	2J	10U				
1,1-dichloroethene	10ug/L	10U	10U	10U	10U				
1,1-dichloroethane	10ug/L	10U	10U	10U	10U				
1,2-dichloroethene (total)	10ug/L	10U	10U	10U	10U				
chloroform	10ug/L	10U	10U	10U	10U				
1,2-dichloroethane	10ug/L	10U	10U	10U	10U				
2-butanone	10ug/L	10U	10U	10U	10U				
1,1,1-trichloroethane	10ug/L	10U	10U	10U	10U				
carbon tetrachloride	10ug/L	10U	10U	10U	10U				
bromodichloromethane	10ug/L	10U	10U	10U	10U				
1,2-dichloropropane	10ug/L	10U	10U	10U	10U				
cis-1,3-dichloropropene	10ug/L	10U	10U	10U	10U				
trichloroethene	10ug/L	4J	10U	10U	10U				
dibromochloromethane	10ug/L	10U	10U	10U	10U				
1,1,2-trichloroethane	10ug/L	10U	10U	10U	10U				
benzene	10ug/L	10U	10U	10U	10U				
trans-1,3-dichloropropene	10ug/L	10U	10U	10U	10U				
bromoform	10ug/L	10U	10U	10U	10U				
4-methyl-2-pentanone	10ug/L	10U	10U	10U	10U				
2-hexanone	10ug/L	10U	10U	10U	10U				

Stetzer Road Landfill: Surface Water
Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SURFACE WATER SANDUSKY RIVER	EZM / MEYZ 55	EZM / MEYZ 53	EZM / MEYZ 54	EZM / MEYZ 26	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/29/94	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:25	10:10	10:10	10:00				
SAMPLE DEPTH (FEET)		6" into water, 0- 3" sediment	surf.	surf.	BLANK				
DESCRIPTION (if applicable)		Surface water bkg	drinking water intake (surface water)	Dupe of EZM/ MEYZ 53, water intake	Trip Blank	BLANK	Downgradient near drinking intake	Downgradient Surface Water	Surface water- Alongside site
VOLATILE ORGANIC COMPOUNDS									
tetrachloroethene	10ug/L	10U	10U	10U	10U				
1,1,2,2-tetrachloroethane	10ug/L	10U	10U	10U	10U				
toluene	10ug/L	10U	10U	10U	10U				
chlorobenzene	10ug/L	10U	10U	10U	10U				
ethyl benzene	10ug/L	10U	10U	10U	10U				
styrene	10ug/L	10U	10U	10U	10U				
xylenes (total)	10ug/L	10U	10U	10U	10U				
SEMI-VOLATILE ORGANIC COMPOUNDS									
phenol	10ug/L	10U	10U	10U					
bis(2-chloroethyl)ether	10ug/L	10U	10U	10U					
2-chlorophenol	10ug/L	10U	10U	10U					
1,3-dichlorobenzene	10ug/L	10U	10U	10U					9.5
1,4-dichlorobenzene	10ug/L	10U	10U	10U					9
1,2-dichlorobenzene	10ug/L	10U	10U	10U					
2-methylphenol	10ug/L	10U	10U	10U					
2,2-oxybis(1-chloropropane)	10ug/L	10U	10U	10U					
4-methylphenol	10ug/L	10U	10U	10U					
n-nitroso-di-n-dipropylamine	10ug/L	10U	10U	10U					330
hexachloroethane	10ug/L	10U	10U	10U					
nitrobenzene	10ug/L	10U	10U	10U					
isophorone	10ug/L	10U	10U	10U					
2-nitrophenol	10ug/L	10U	10U	10U					
2,4-dimethylphenol	10ug/L	10U	10U	10U					
bis(2-chloroethoxy)methane	10ug/L	10U	10U	10U					
2,4-dichlorophenol	10ug/L	10U	10U	10U					

Stetzer Road Landfill: Surface Water
Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SURFACE WATER SANDUSKY RIVER	EZM / MEYZ 55	EZM / MEYZ 53	EZM / MEYZ 54	EZM / MEYZ 26	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/29/94	7/15/87	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:25	10:10	10:10	10:00					
SAMPLE DEPTH (FEET)		6" into water, 0- 3" sediment	surf.	surf.	BLANK					
DESCRIPTION (if applicable)		Surface water bkg	drinking water intake (surface water)	Dupe of EZM/ MEYZ 53, water intake	Trip Blank	BLANK	Downgradient near drinking intake	Downgradient Surface Water	Surface water- Alongside site	Upgradient surface water (Sandusky River)
1,2,4-trichlorobenzene	10ug/L	10U	10U	10U						8.6
naphthalene	10ug/L	10U	10U	10U						
SEMI-VOLATILE ORGANIC COMPOUNDS										
4-chloroaniline	10ug/L	10U	10U	10U						
hexachlorobutadiene	10ug/L	10U	10U	10U						
4-chloro-3-methylphenol	10ug/L	10U	10U	10U						
2-methylnaphthalene	10ug/L	10U	10U	10U						
hexachlorocyclopentadiene	10ug/L	10U	10U	10U						
2,4,6-trichlorophenol	10ug/L	10U	10U	10U						
2,4,5-trichlorophenol	10ug/L	25U	25U	25U						
2-chloronaphthalene	10ug/L	10U	10U	10U						
2-nitroaniline	10ug/L	25U	25U	25U						
dimethylphthalate	10ug/L	10U	10U	10U						
acenaphthylene	10ug/L	10U	10U	10U						16
2,6-dinitrotoluene	10ug/L	10U	10U	10U						
3-nitroaniline	10ug/L	25U	25U	25U						
acenaphthene	10ug/L	10U	10U	10U						
2,4-dinitrophenol	10ug/L	25U	25U	25U						
4-nitrophenol	10ug/L	25U	25U	25U						
dibenzofuran	10ug/L	10U	10U	10U						
2,4-dinitrotoluene	10ug/L	10U	10U	10U						24.7
diethylphthalate	10ug/L	10U	10U	10U						
4-chlorophenyl-phenyl ether	10ug/L	10U	10U	10U						
fluorene	10ug/L	10U	10U	10U						
4-nitroaniline	10ug/L	25U	25U	25U						
4,6-dinitro-2-methylphenol	10ug/L	25U	25U	25U						
n-nitrosodiphenylamine	10ug/L	10U	10U	10U						

Stetzer Road Landfill: Surface Water
Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SURFACE WATER SANDUSKY RIVER	EZM / MEYZ 55	EZM / MEYZ 53	EZM / MEYZ 54	EZM / MEYZ 26	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/29/94	7/15/87	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:25	10:10	10:10	10:00					
SAMPLE DEPTH (FEET)		6" into water, 0- 3" sediment	surf.	surf.	BLANK					
DESCRIPTION (if applicable)		Surface water bkg	drinking water intake (surface water)	Dupe of EZM/ MEYZ 53, water intake	Trip Blank	BLANK	Downgradient near drinking intake	Downgradient Surface Water	Surface water- Alongside site	Upgradient surface water (Sandusky River)
4-bromophenyl-phenyl ether	10ug/L	10U	10U	10U						
hexachlorobenzene	10ug/L	10U	10U	10U						
SEMI-VOLATILE ORGANIC COMPOUNDS										
	CRQL									
pentachlorophenol	25ug/L	25U	25U	25U						
phenanthrene	10ug/L	10U	10U	10U						
anthracene	10ug/l	10U	10U	10U						
carbazole	10ug/l	10U	10U	10U						
di-n-butylphthalate	10ug/L	10U	10U	10U						
fluoranthene	10ug/L	10U	10U	10U						
pyrene	10ug/L	10U	10U	10U						43.5
butylbenzylphthalate	10ug/L	10U	10U	10U						
3,3-dichlorobenzidine	10ug/L	10U	10U	10U						
benzo(a)anthracene	10ug/L	10U	10U	10U						
chrysene	10ug/L	10U	10U	10U						
bis(2-ethylhexyl)phthalate	10ug/L	10BJU	10BJU	10BJU						
di-n-octylphthalate	10ug/L	10U	10U	10U						
benzo(b)fluoranthene	10ug/L	10U	10U	10U						
benzo(k)fluoranthene	10ug/L	10U	10U	10U						
benzo(a)pyrene	10ug/L	10U	10U	10U						
indeno(1,2,3-cd)pyrene	10ug/L	10U	10U	10U						
dibenzo(a,h)anthracene	10ug/L	10U	10U	10U						
benzo(g,h,i)perylene	10ug/L	10U	10U	10U						
PESTICIDES/PCBs										
	CRQL									
alpha-BHC	0.05ug/L	0.050U	0.050U	0.050U						
beta-BHC	0.05ug/L	0.050U	0.050U	0.050U						
delta-BHC	0.05ug/L	0.050U	0.050U	0.050U						
gamma-BHC (Lindane)	0.05ug/L	0.050U	0.050U	0.050U						

Stetzer Road Landfill: Surface Water Results

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Stetzer Road Landfill: Surface Water
Results

CLP SAMPLE NUMBER EZM=Organic MEYZ=Inorganic	SURFACE WATER SANDUSKY RIVER	EZM / MEYZ 55	EZM / MEYZ 53	EZM / MEYZ 54	EZM / MEYZ 26	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA	1987 E&E DATA
DATE SAMPLE COLLECTED		8/30/94	8/30/94	8/30/94	8/29/94	7/15/87	7/15/87	7/15/87	7/15/87
TIME SAMPLE COLLECTED		12:25	10:10	10:10	10:00				
SAMPLE DEPTH (FEET)		6" into water, 0-3" sediment	surf.	surf.	BLANK				
DESCRIPTION (if applicable)		Surface water bkg	drinking water intake (surface water)	Dupe of EZM/ MEYZ 53, water intake	Trip Blank	BLANK	Downgradient near drinking intake	Downgradient Surface Water	Surface water-Alongside site
TAL METALS/CYANIDE	CRDL								
aluminum	200ug/L	589	210	151B			182	266	1020
antimony	60ug/L	12U	12U	12U					
arsenic	10ug/L	5U	5U	5U					
barium	200ug/L	67.2B	76.5B	78.7B			79	87	77
beryllium	5ug/L	1U	1U	1U					
cadmium	5ug/L	2U	2U	2U					
calcium	5000ug/L	62500	69900	70500					
chromium	10ug/L	3U	4B	5.4B					
cobalt	50ug/L	3U	3U	3U					
copper	25ug/L	2.8B	2.8B	3B		254	7.4J	7.2J	11J
iron	100ug/L	1160	554	578					
lead	3ug/L	2U	2U	2U					
magnesium	5000ug/L	19500	20900	21300					
manganese	15ug/L	76.5	158	188					
mercury	0.2ug/L	.020U	0.2U	0.2U				0.3CV	0.2CV
nickel	40ug/L	7U	7U	7U		19			8.3
potassium	5000ug/L	4340B	4410B	4720B					
selenium	5ug/L	5U	5U	5U					
silver	10ug/L	2U	2U	2U					
sodium	5000ug/L	28900	27400	28100					
thallium	10ug/L	6.6B	9.7B	5U					
vanadium	50ug/L	5.5B	4.9B	5.1B					
zinc	20ug/L	15.1B	31.1	33		14	10	9.5	18
cyanide	10ug/L	10U	10U	10U					15

DATA QUALIFIERS

Organic

- U Indicates the compound was analyzed for but not detected.
 - J Indicates an estimated value.
 - B Compound is found in the associated blank as well as the sample.
 - P Indicates there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported.
 - D This flag indicates all compounds identified in an analysis at a secondary dilution factor.
 - E This flag identifies compounds whose concentrations exceed the calibration range of the GC\MS instrument.
 - C Indicates the pesticide results have been confirmed by GC\MS.
 - X This flag is used to denote indistinguishable coeluting isomers.
- * Results for the residential well semi-volatile organic compounds are unusable due to laboratory error. The spike blank sample was not extracted with the samples, thus compound recoveries are not known.

Inorganic

- U Indicates the compound was analyzed for but not detected.
- B Indicates an estimated value.

Stetzer Road Landfill Recon



Photograph No: 1

Orientation: South side of site facing North.

Description: Entrance to Amerace Property/landfill.

Date: April 15, 1994



Photograph No: 2

Orientation: South side of property facing east.

Description: Drainage ditch that runs around the site North toward the river.

Date: April 15, 1994

Stetzer Road Landfill Recon



Photograph No: 3

Orientation: South side of site facing North.

Description: Top of landfill.

Date: April 15, 1994



Photograph No: 4

Orientation: South side of property facing west.

Description: Top of landfill and empty storage shed on property.

Date: April 15, 1994

Stetzer Road Landfill Recon



Photograph No: 5

Date: April 15, 1994

Orientation: South of site facing south off the landfill property.

Description: Drinking water pond for one home.

**Stetzer Road Landfill
Sampling Event**



Photograph No: 6

Date: August 30, 1994

Orientation: Looking South on Northern downslope.

Description: Leachate outbreak. Soil sample

EZM/MEYZ 38 and its duplicate EZM/MEYZ 44. 0-3" in depth.



Photograph No: 7

Date: August 30, 1994

Orientation: North edge of top of the landfill, just east of center, on barren spot.

Description: Barren spot.

Soil sample EZM/MEYZ 43, 2.5-3.0 feet in depth.

**Stetzer Road Landfill
Sampling Event**



Photograph No: 8

Date: August 30, 1994

**Orientation: Sandusky River, looking east
(upstream).**

**Description: Probable point of entry into surface
water. Sediment sample EZM/MEYZ 49.**



Photograph No: 9

Date: August 30, 1994

**Orientation: Facing North toward the Sandusky river from the south bank under the Locustgrove
road bridge.**

Description: Background surface water sample. EZM/MEYZ 55.

**Stetzer Road Landfill
Sampling Event**



Photograph No: 10

Date: August 30, 1994

Orientation: Facing North toward the Sandusky River south bank from Locustgrove road bridge.

Description: Background sediment sample. EZM/MEYZ 52.



Photograph No: 11

Date: August 30, 1994

Orientation: Looking east on Sandusky River toward drinking water intake.

Description: Surface water sample EZM/MEYZ53 and duplicate EZM/MEYZ 54 were taken at this drinking water intake between steel beams.

**Stetzer Road Landfill
Sampling Event**

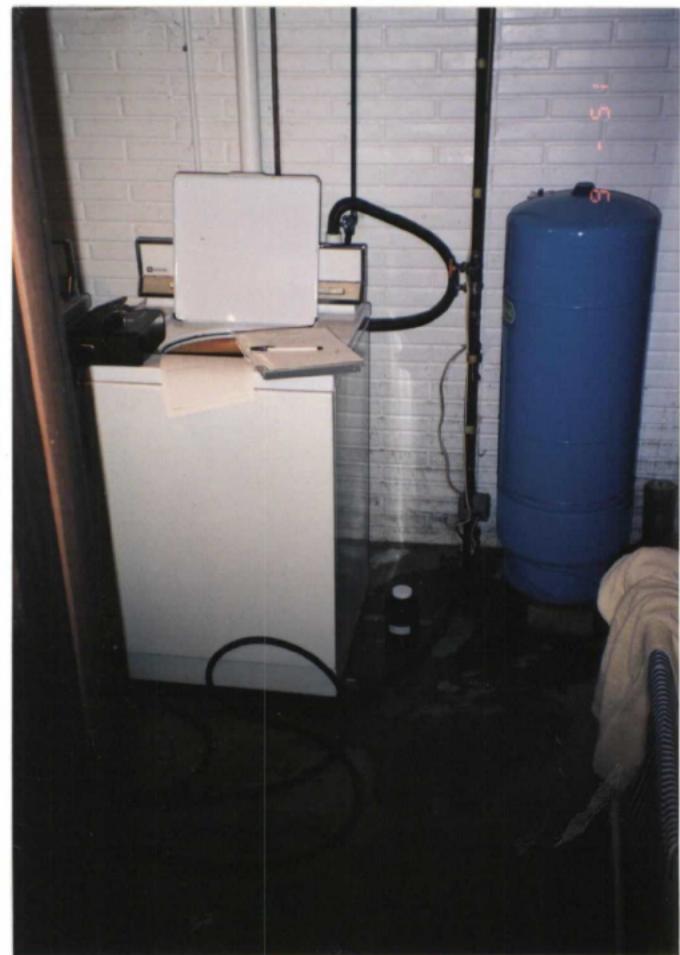


Photograph No: 12

Date: August 30, 1994

Orientation: Facing East toward the old unused drinking water intake.

Description: Sediment sample EZM/MEYZ 50 and duplicate EZM/MEYZ 51.



Photograph No: 13

Date: August 30, 1994

Water softener was bypassed.

**Stetzer Road Landfill
Sampling Event**

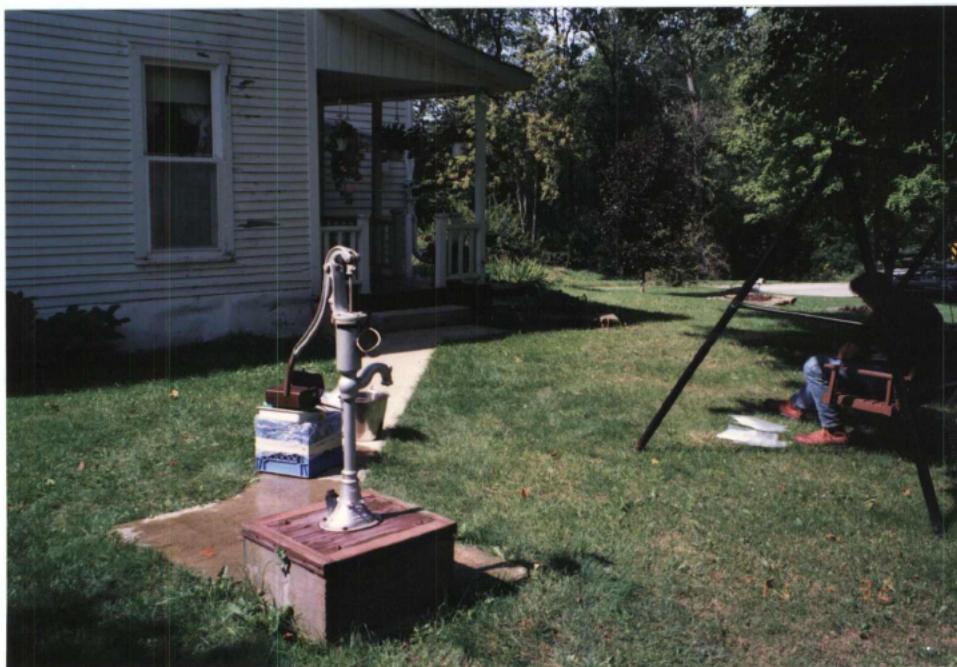


Photograph No: 14

Date: August 30, 1994

Orientation: [REDACTED]

Description: [REDACTED]



Photograph No: 15

Date: August 30, 1994

Orientation: [REDACTED]

Description: [REDACTED]

**Stetzer Road Landfill
Sampling Event**



Photograph No: 16

Date: August 30, 1994

Orientation:

Description: